

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121423\
 Data File : VN080491.D
 Acq On : 14 Dec 2023 18:37
 Operator : JC\MD
 Sample : 05803-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 00:32:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

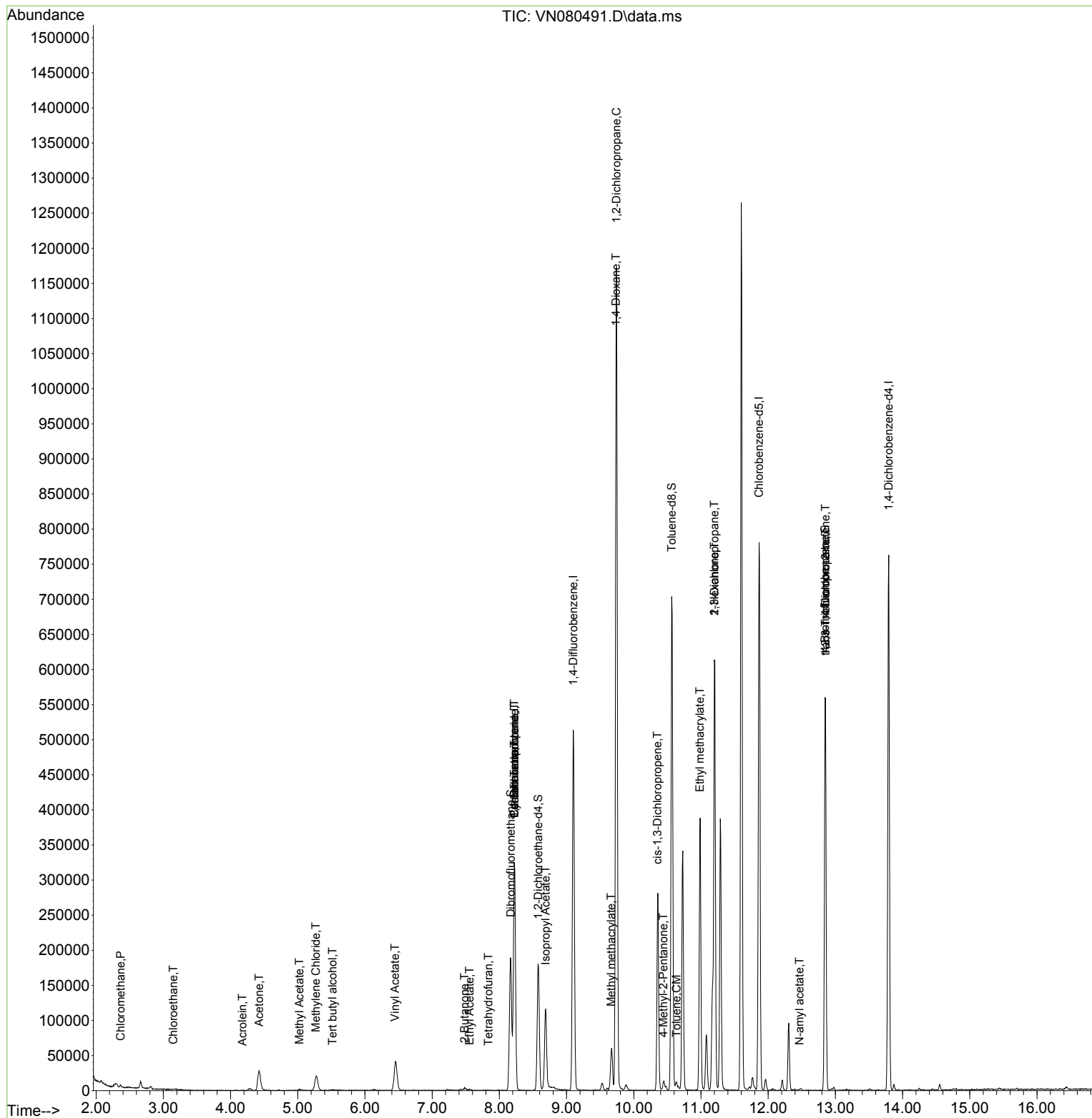
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

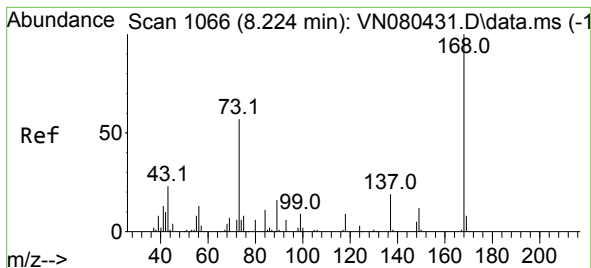
Internal Standards						
1) Pentafluorobenzene	8.224	168	233087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	434545	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	448956	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	206787	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	162411	54.554	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.100%			
35) Dibromofluoromethane	8.171	113	133462	48.440	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.880%			
50) Toluene-d8	10.565	98	491017	47.786	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.580%			
62) 4-Bromofluorobenzene	12.847	95	199815	51.210	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.420%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	3614	0.763	ug/l	96
6) Chloroethane	3.148	64	329	0.201	ug/l #	43
11) Tert butyl alcohol	5.518	59	397	1.132	ug/l #	72
13) Acrolein	4.177	56	151	0.393	ug/l #	1
16) Acetone	4.424	43	52906	100.226	ug/l	98
18) Methyl Acetate	5.024	43	2412	0.710	ug/l	91
20) Methylene Chloride	5.271	84	18553	6.568	ug/l	96
23) Vinyl Acetate	6.447	43	773	0.201	ug/l #	62
25) 2-Butanone	7.483	43	5708	5.613	ug/l	88
29) Tetrahydrofuran	7.835	42	334	0.459	ug/l #	31
31) Cyclohexane	8.224	56	5087	1.257	ug/l #	42
36) 1,1-Dichloropropene	8.224	75	19525	4.334	ug/l #	47
37) Ethyl Acetate	7.559	43	2662	0.944	ug/l #	81
38) Carbon Tetrachloride	8.224	117	26004	4.831	ug/l #	15
43) Isopropyl Acetate	8.688	43	133250	26.271	ug/l #	85
45) 1,2-Dichloropropane	9.741	63	1694	0.554	ug/l #	45
48) Methyl methacrylate	9.665	41	3351	1.107	ug/l #	31
49) 1,4-Dioxane	9.735	88	92	2.005	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	7335	2.626	ug/l	94
52) Toluene	10.635	92	5317	0.647	ug/l	86
54) cis-1,3-Dichloropropene	10.353	75	54930	10.101	ug/l #	61
56) Ethyl methacrylate	10.982	69	1587	0.485	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6758	1.304	ug/l #	42
59) 2-Hexanone	11.200	43	77103	37.387	ug/l #	48
74) N-amyl acetate	12.465	43	1793	0.370	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	111384	27.000	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	111384	70.891	ug/l #	15

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :

Instrument :
MSVOA_N
ClientSampleId :





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

Instrument :

MSVOA_N

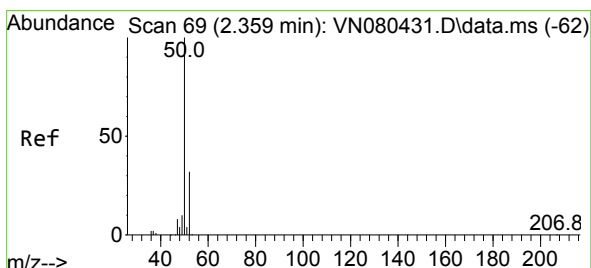
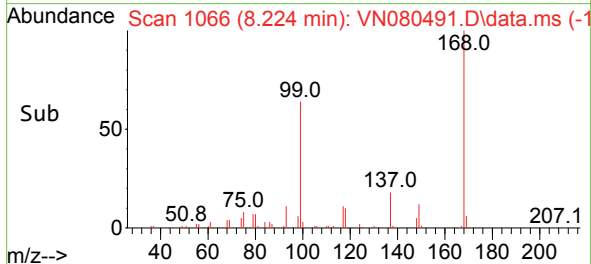
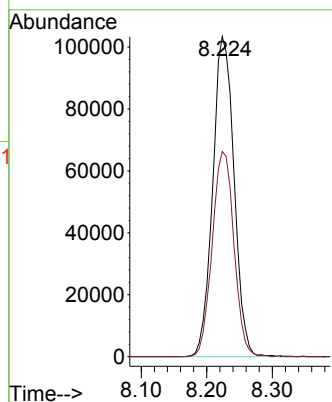
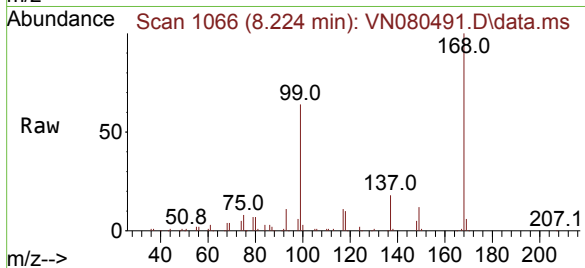
ClientSampleId :

Tgt Ion:168 Resp: 233087

Ion Ratio Lower Upper

168 100

99 64.1 53.0 79.6



#3

Chloromethane

Concen: 0.763 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080491.D

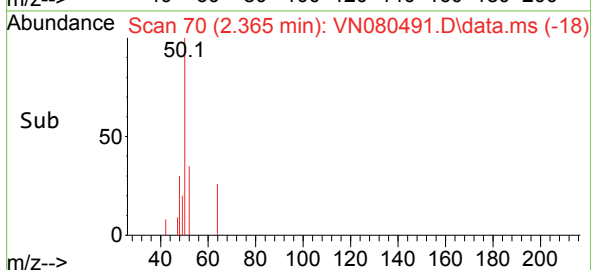
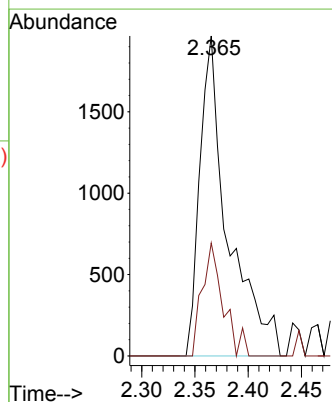
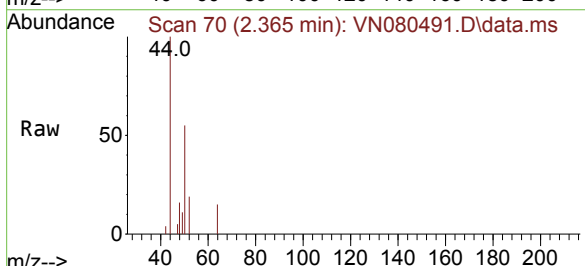
Acq: 14 Dec 2023 18:37

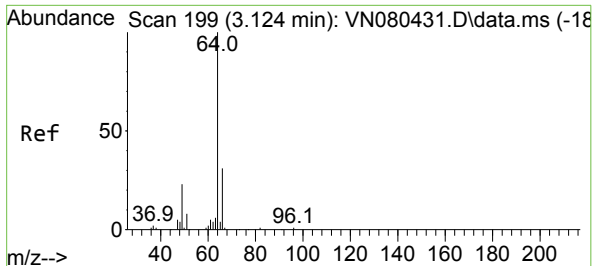
Tgt Ion: 50 Resp: 3614

Ion Ratio Lower Upper

50 100

52 35.3 26.5 39.7

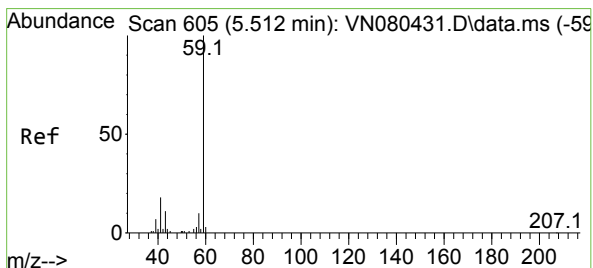
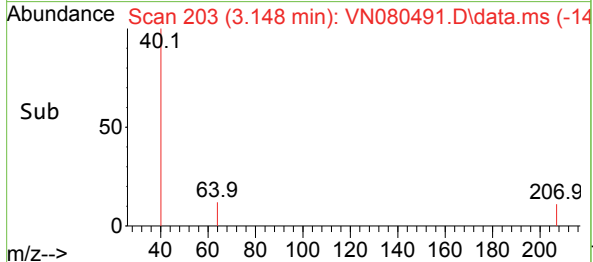
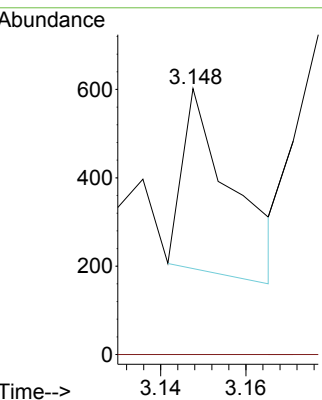
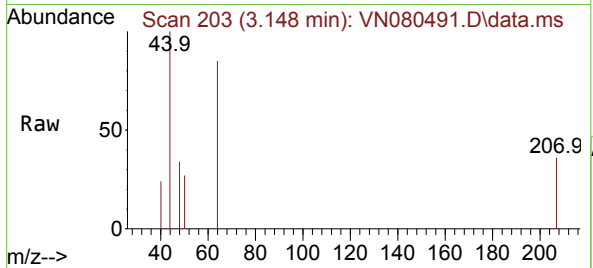




#6
Chloroethane
Concen: 0.201 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.024 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

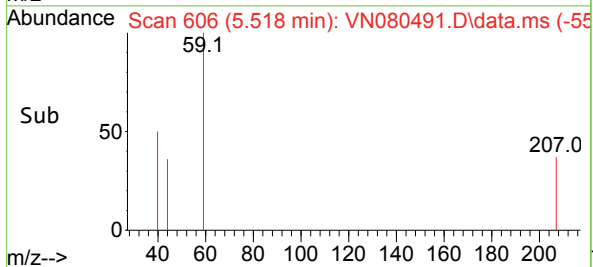
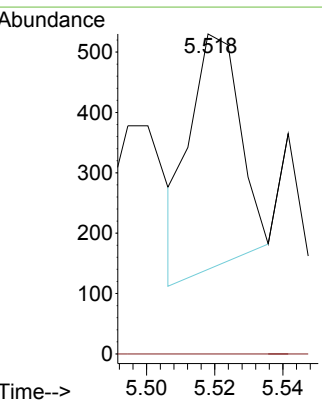
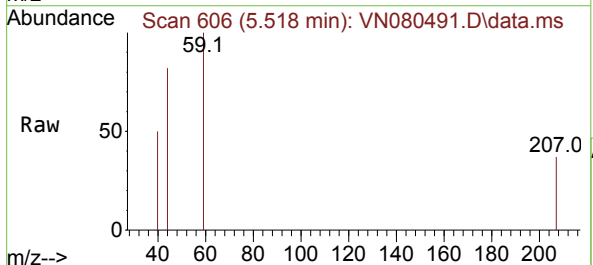
Instrument :
MSVOA_N
ClientSampleId :

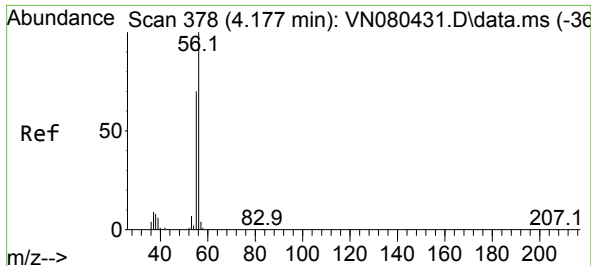
Tgt Ion: 64 Resp: 329
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.132 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Tgt Ion: 59 Resp: 397
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

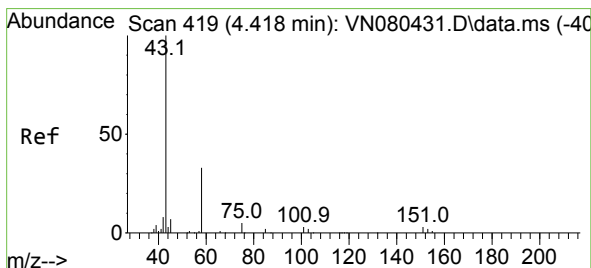
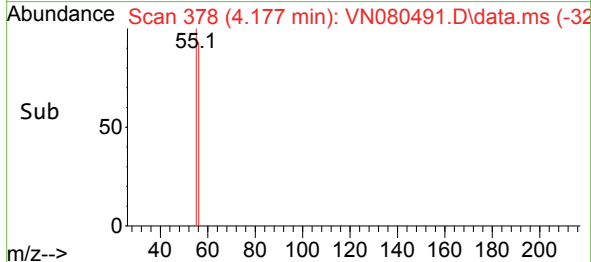
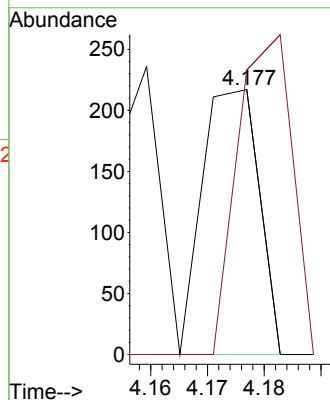
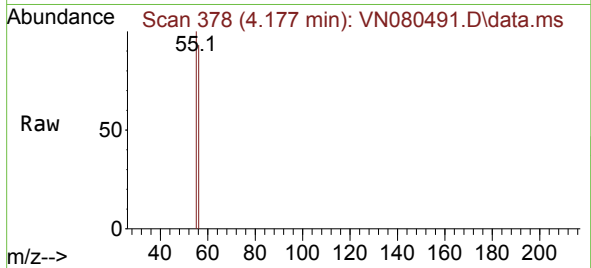




#13
Acrolein
Concen: 0.393 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

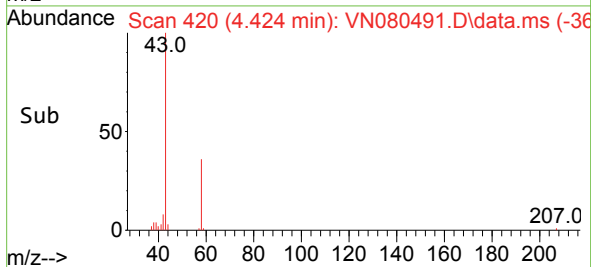
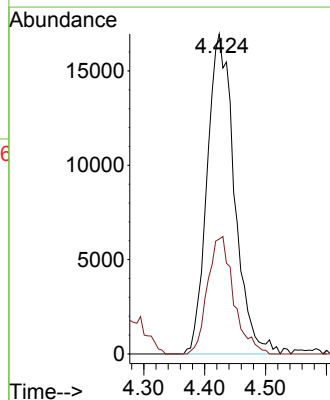
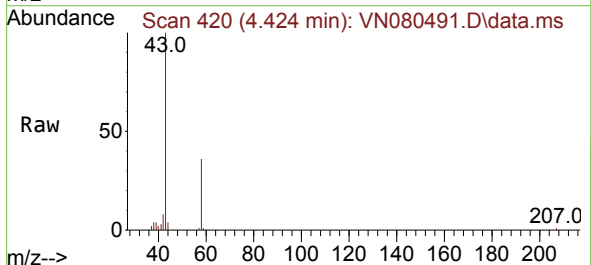
Instrument :
MSVOA_N
ClientSampleId :

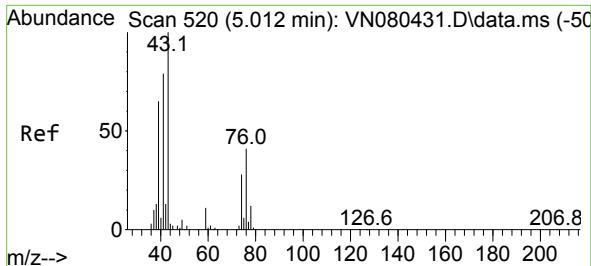
Tgt Ion: 56 Resp: 151
Ion Ratio Lower Upper
56 100
55 162.3 54.5 81.7#



#16
Acetone
Concen: 100.226 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Tgt Ion: 43 Resp: 52906
Ion Ratio Lower Upper
43 100
58 35.9 28.0 42.0





#18

Methyl Acetate

Concen: 0.710 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.012 min

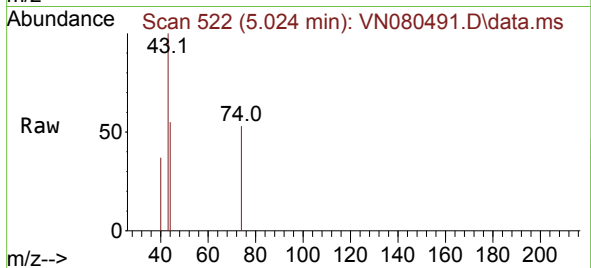
Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

Instrument :

MSVOA_N

ClientSampleId :

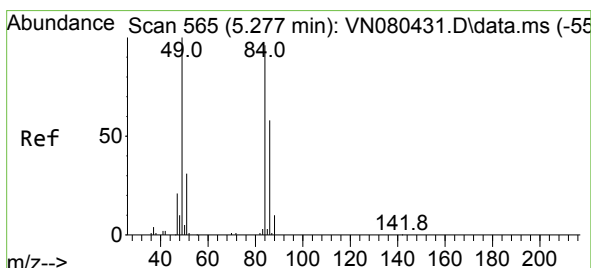
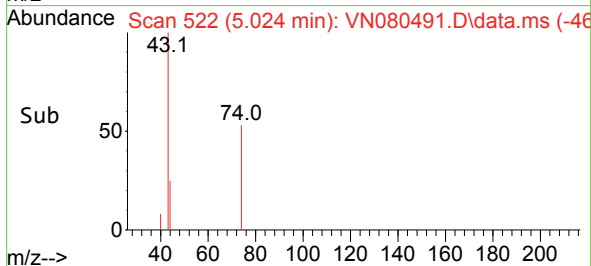
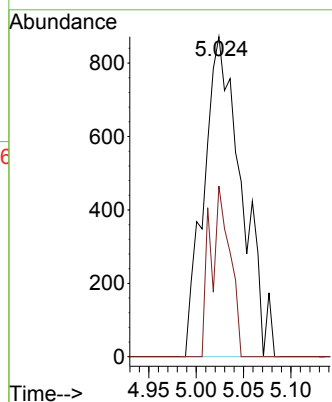


Tgt Ion: 43 Resp: 2412

Ion Ratio Lower Upper

43 100

74 27.7 26.2 39.4



#20

Methylene Chloride

Concen: 6.568 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

Tgt Ion: 84 Resp: 18553

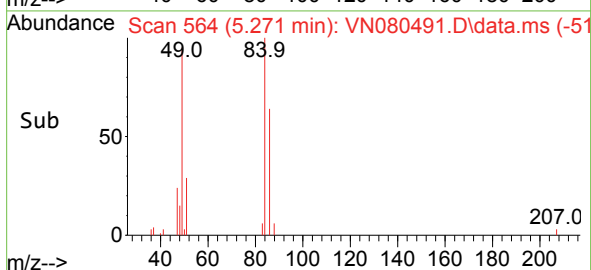
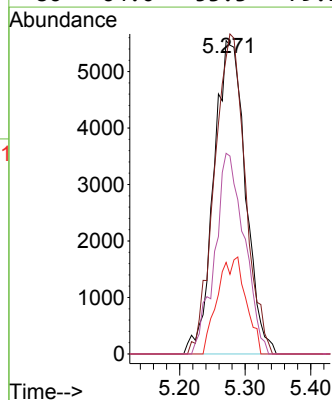
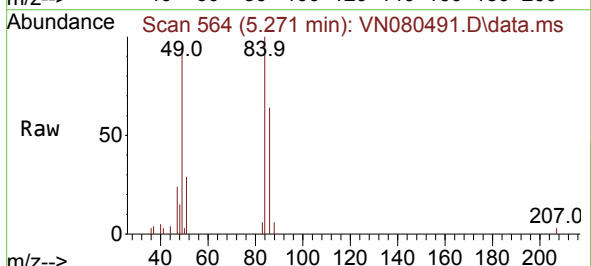
Ion Ratio Lower Upper

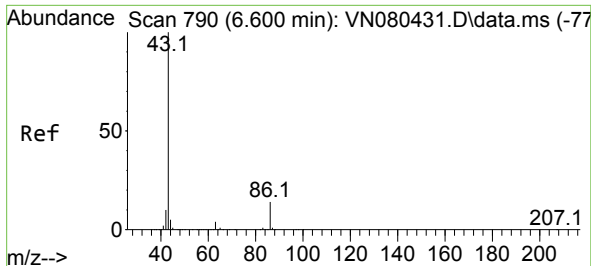
84 100

49 94.6 79.7 119.5

51 29.2 25.2 37.8

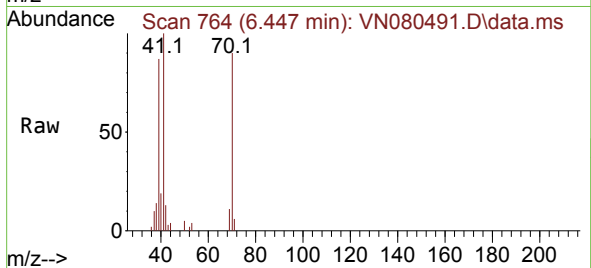
86 64.0 53.3 79.9



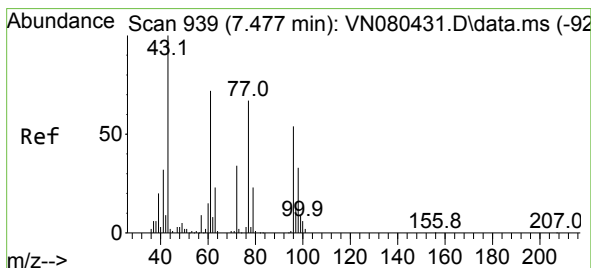
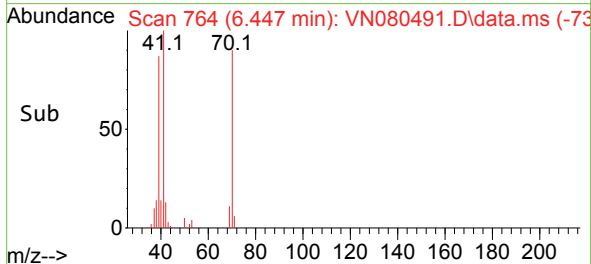
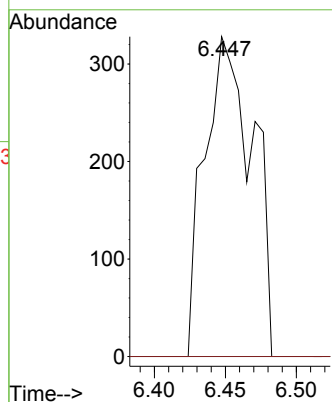


#23
 Vinyl Acetate
 Concen: 0.201 ug/l
 RT: 6.447 min Scan# 773
 Delta R.T. -0.153 min
 Lab File: VN080491.D
 Acq: 14 Dec 2023 18:37

Instrument :
 MSVOA_N
 ClientSampleId :

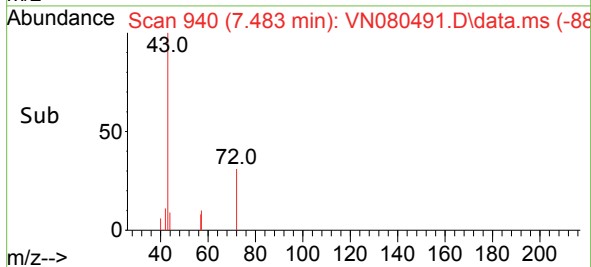
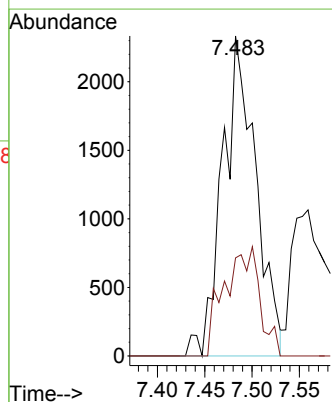
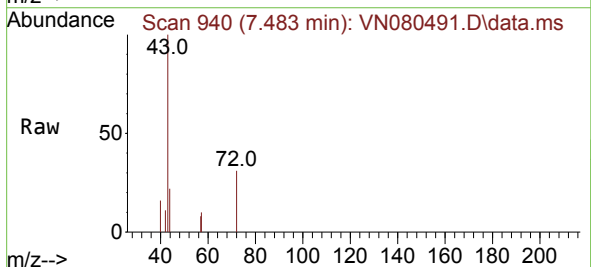


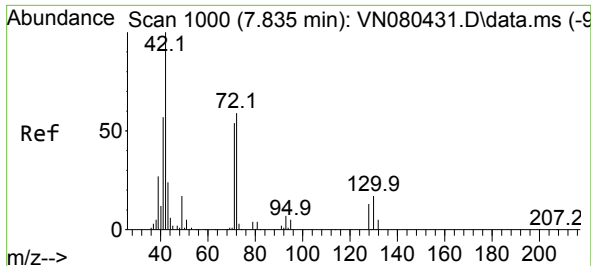
Tgt Ion: 43 Resp: 773
 Ion Ratio Lower Upper
 43 100
 86 0.0 13.0 19.6#



#25
 2-Butanone
 Concen: 5.613 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.006 min
 Lab File: VN080491.D
 Acq: 14 Dec 2023 18:37

Tgt Ion: 43 Resp: 5708
 Ion Ratio Lower Upper
 43 100
 72 30.7 30.2 45.2





#29

Tetrahydrofuran

Concen: 0.459 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.000 min

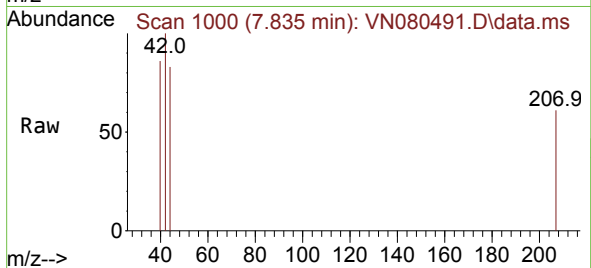
Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

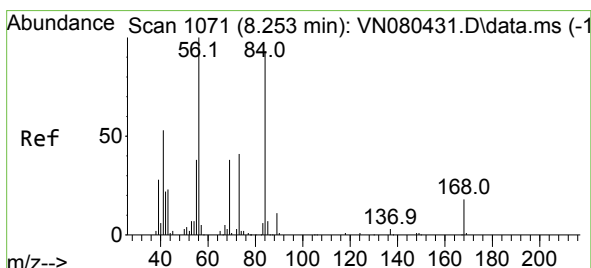
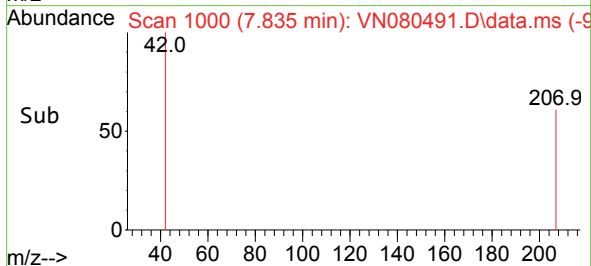
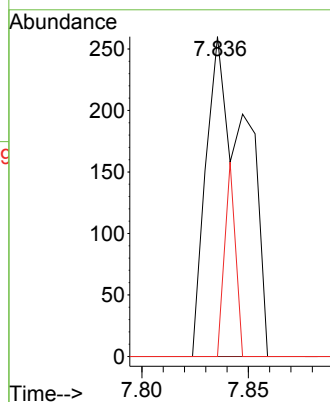
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	334
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.8	74.6#
71	16.8	47.4	71.2#



#31

Cyclohexane

Concen: 1.257 ug/l

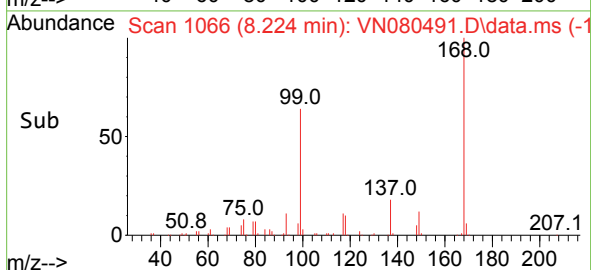
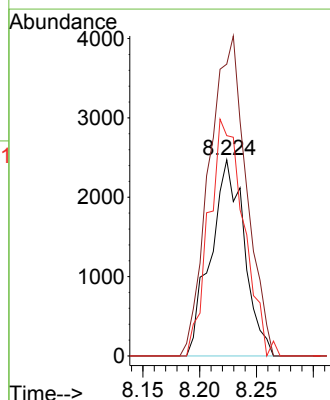
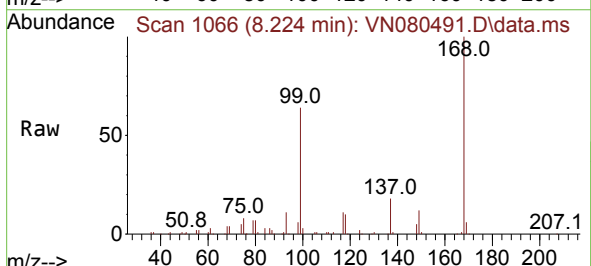
RT: 8.224 min Scan# 1066

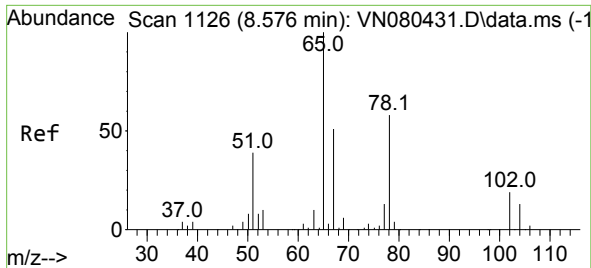
Delta R.T. -0.029 min

Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

Tgt Ion:	56	Resp:	5087
Ion	Ratio	Lower	Upper
56	100		
69	148.8	26.8	40.2#
84	112.3	81.8	122.6

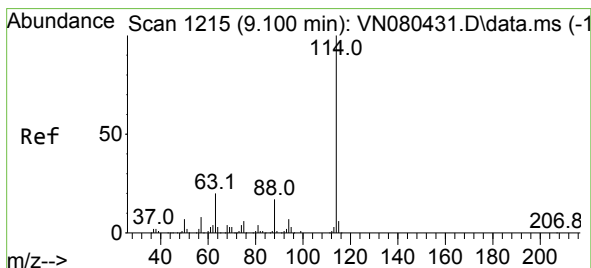
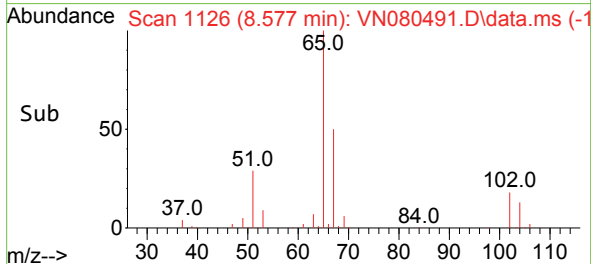
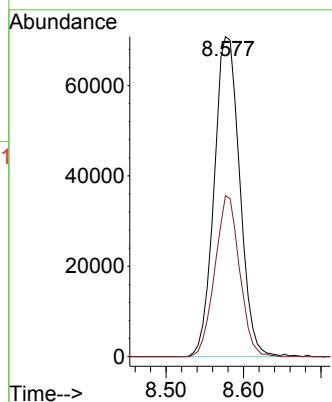
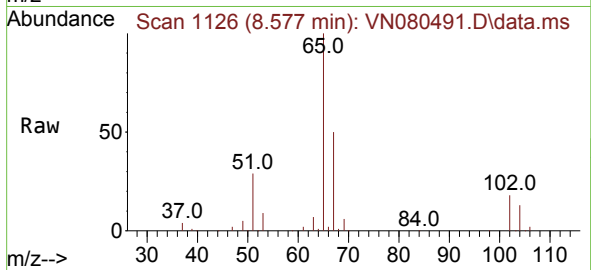




#33
 1,2-Dichloroethane-d4
 Concen: 54.554 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN080491.D
 Acq: 14 Dec 2023 18:37

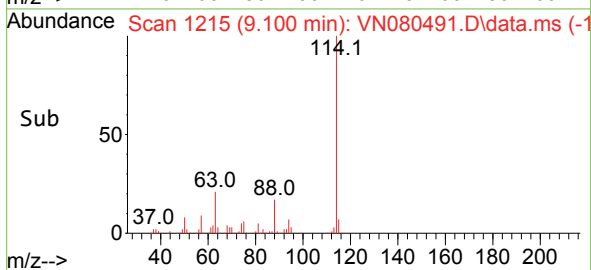
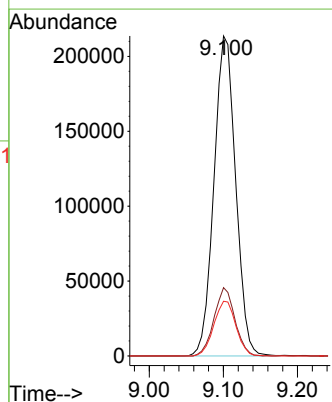
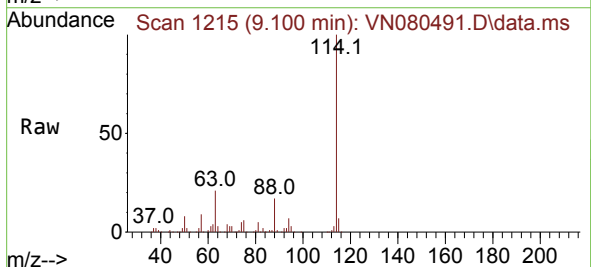
Instrument :
 MSVOA_N
 ClientSampleId :

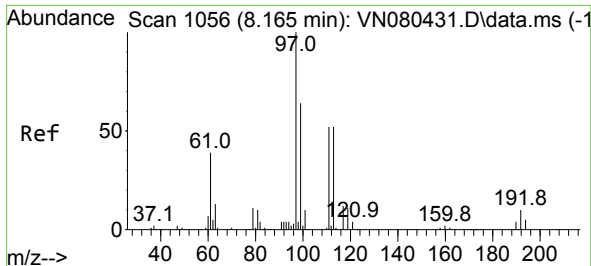
Tgt Ion: 65 Resp: 162411
 Ion Ratio Lower Upper
 65 100
 67 48.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN080491.D
 Acq: 14 Dec 2023 18:37

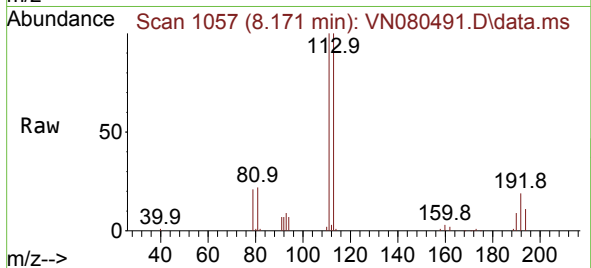
Tgt Ion: 114 Resp: 434545
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 36.4
 88 17.1 0.0 30.6



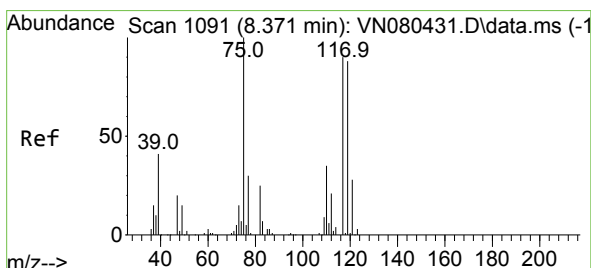
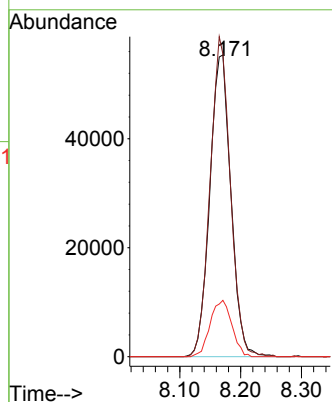
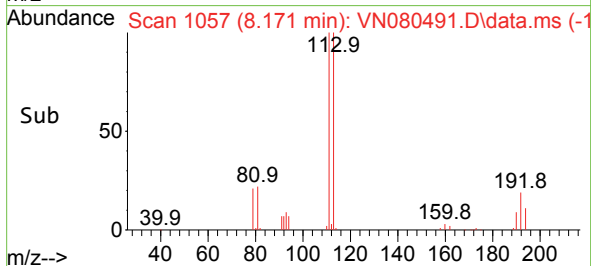


#35
 Dibromofluoromethane
 Concen: 48.440 ug/l
 RT: 8.171 min Scan# 1056
 Delta R.T. 0.006 min
 Lab File: VN080491.D
 Acq: 14 Dec 2023 18:37

Instrument :
 MSVOA_N
 ClientSampleId :

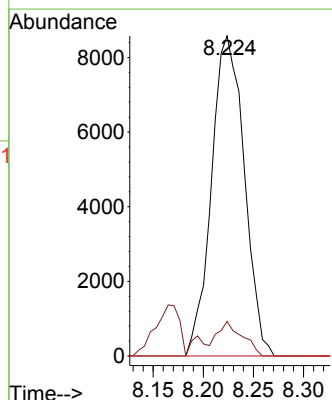
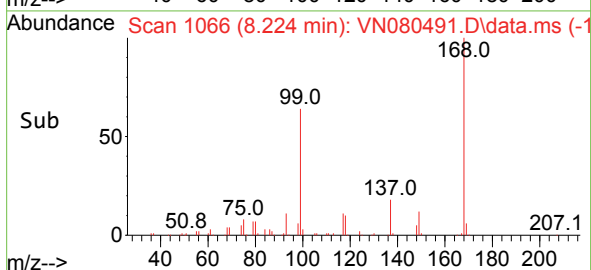
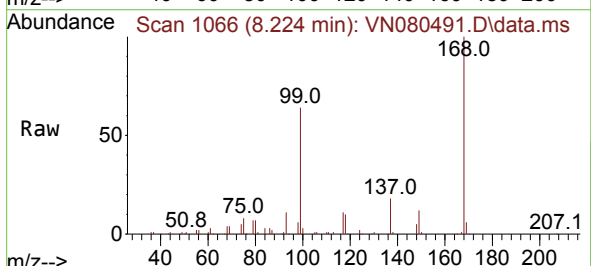


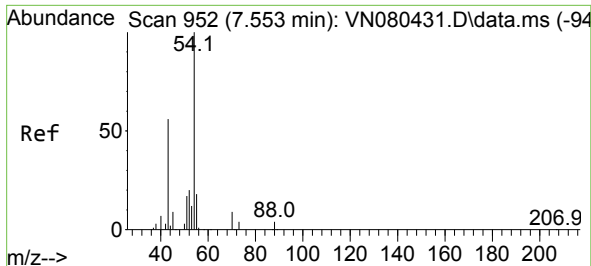
Tgt Ion:113 Resp: 133462
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.6 123.8
 192 19.2 12.7 19.1#



#36
 1,1-Dichloropropene
 Concen: 4.334 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.147 min
 Lab File: VN080491.D
 Acq: 14 Dec 2023 18:37

Tgt Ion: 75 Resp: 19525
 Ion Ratio Lower Upper
 75 100
 110 8.2 19.1 57.3#
 77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.944 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

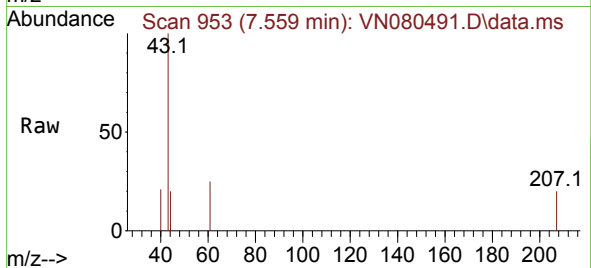
Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

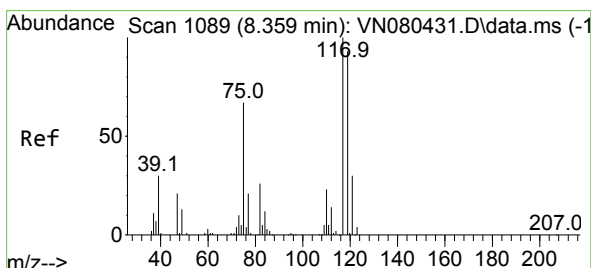
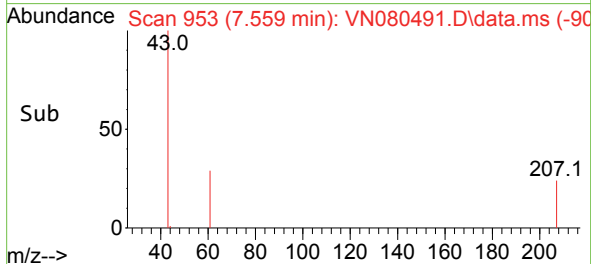
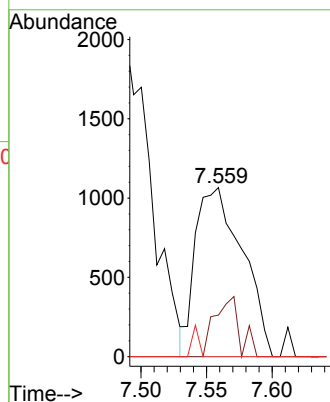
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	2662
Ion	Ratio	Lower	Upper
43	100		
61	18.8	13.2	19.8
70	0.0	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 4.831 ug/l

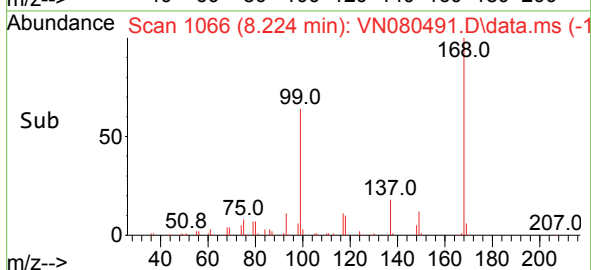
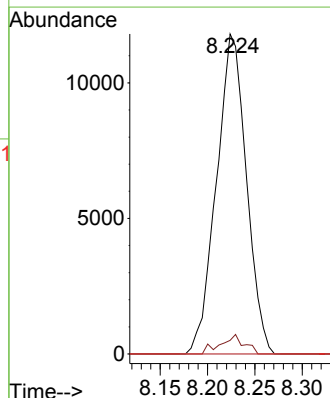
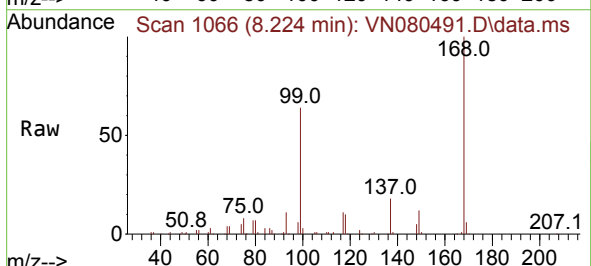
RT: 8.224 min Scan# 1066

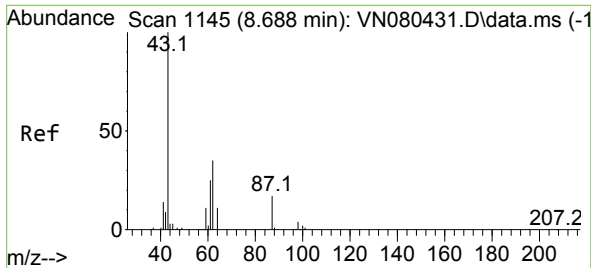
Delta R.T. -0.135 min

Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

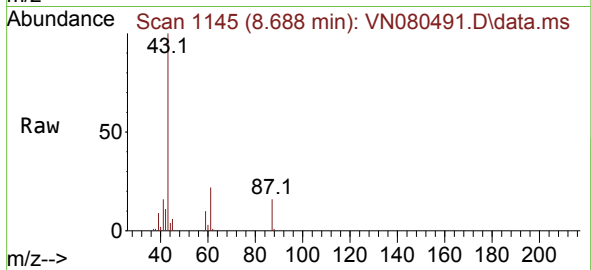
Tgt Ion:	117	Resp:	26004
Ion	Ratio	Lower	Upper
117	100		
119	4.2	77.3	115.9#
121	0.0	23.3	34.9#



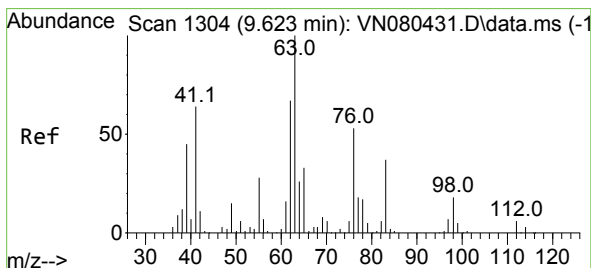
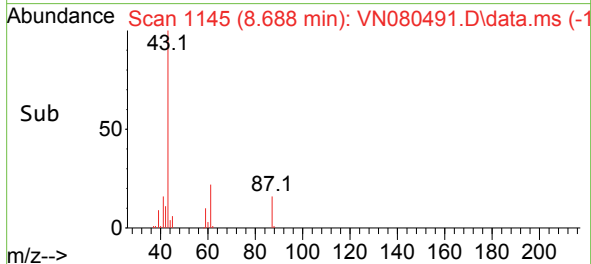
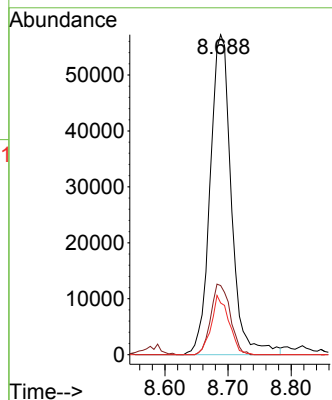


#43
Isopropyl Acetate
Concen: 26.271 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Instrument :
MSVOA_N
ClientSampleId :

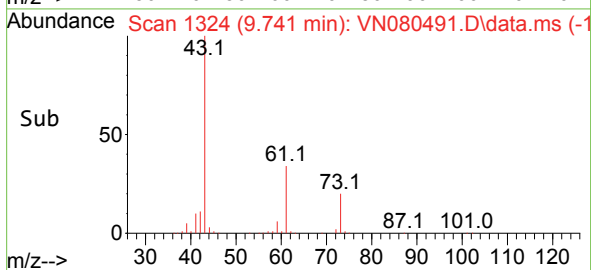
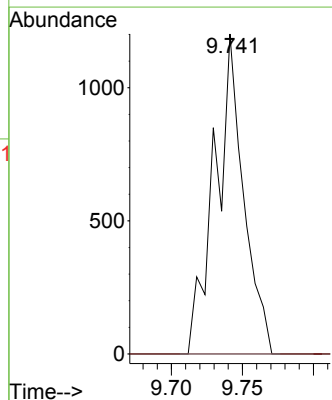
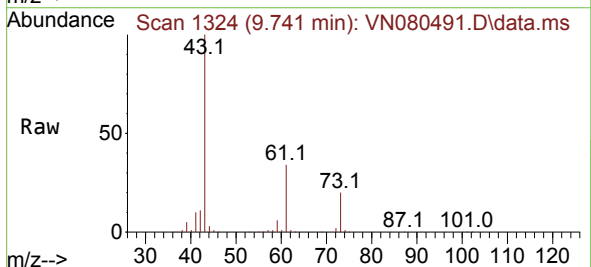


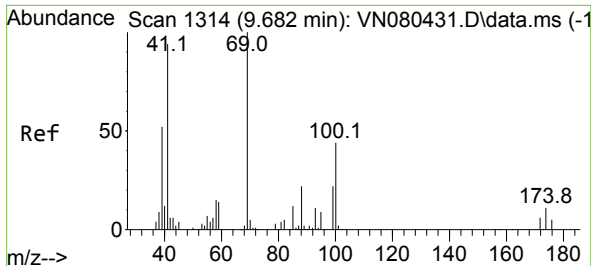
Tgt Ion: 43 Resp: 133250
Ion Ratio Lower Upper
43 100
61 20.2 24.7 37.1#
87 15.4 14.6 21.8



#45
1,2-Dichloropropane
Concen: 0.554 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Tgt Ion: 63 Resp: 1694
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

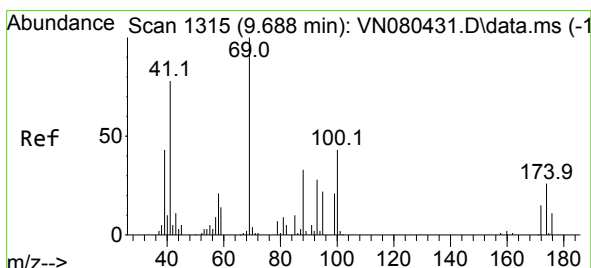
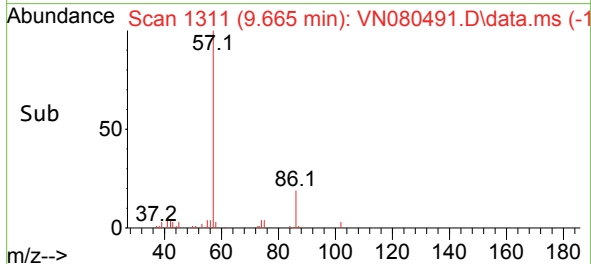
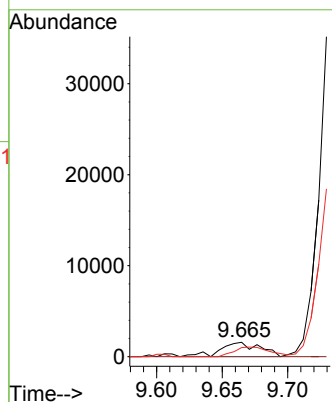
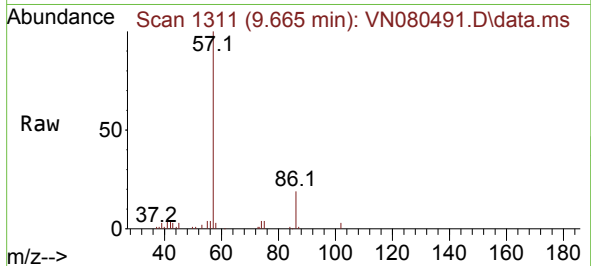




#48
Methyl methacrylate
Concen: 1.107 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

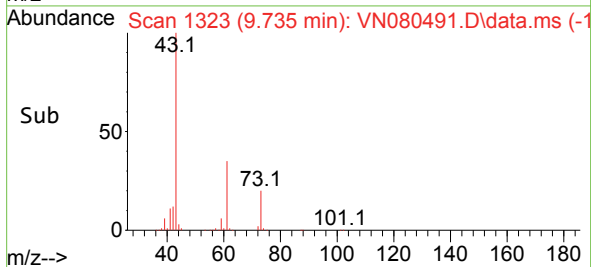
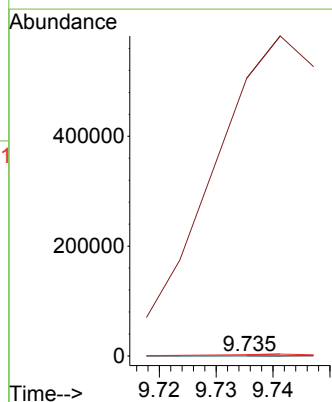
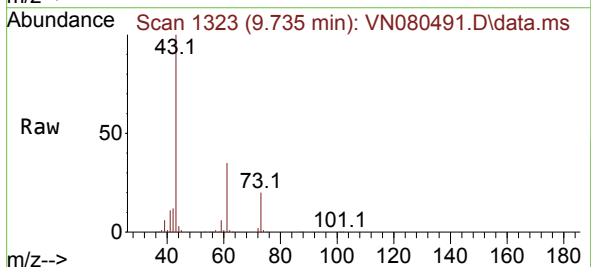
Instrument :
MSVOA_N
ClientSampleId :

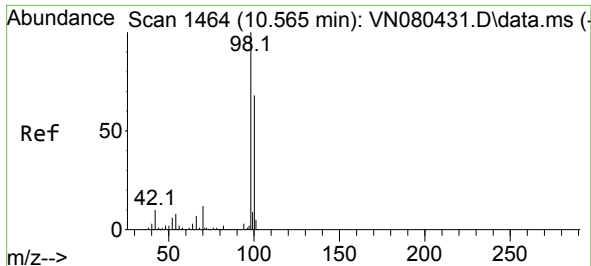
Tgt Ion: 41 Resp: 3351
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 60.3 54.6 81.8



#49
1,4-Dioxane
Concen: 2.005 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.047 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Tgt Ion: 88 Resp: 92
Ion Ratio Lower Upper
88 100
43 1141005.4 17.0 25.6#
58 5681.5 47.0 70.4#

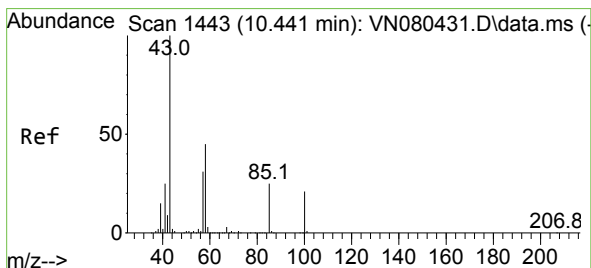
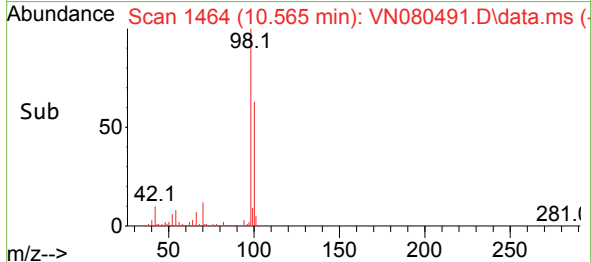
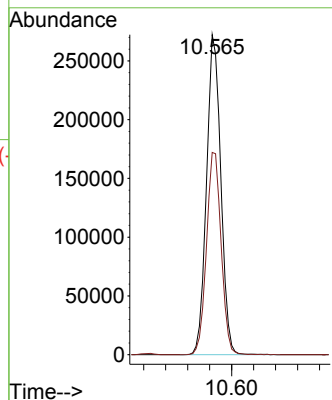
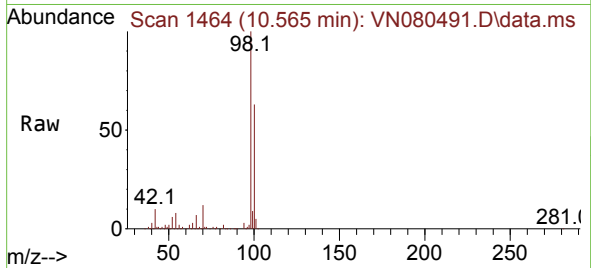




#50
Toluene-d8
Concen: 47.786 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

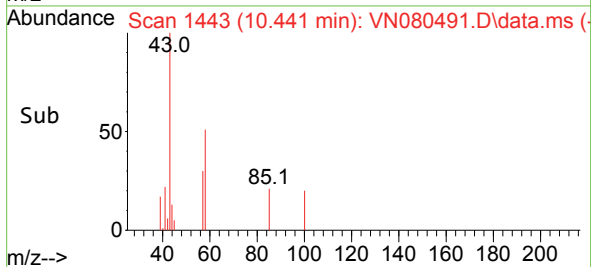
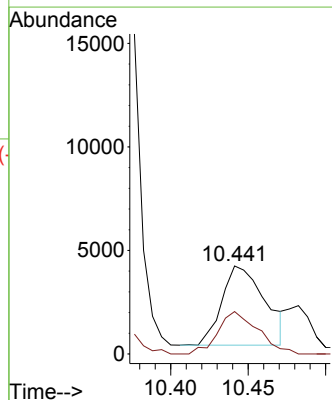
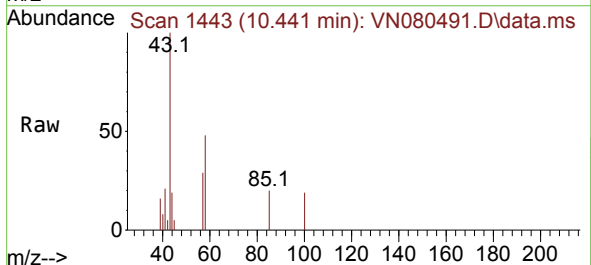
Instrument :
MSVOA_N
ClientSampleId :

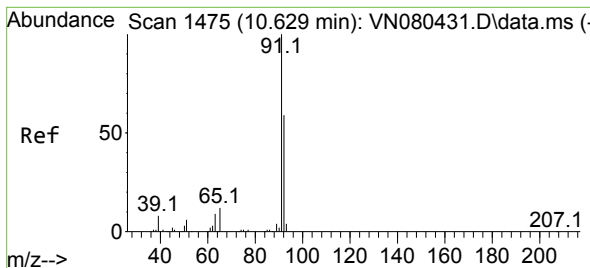
Tgt Ion: 98 Resp: 491017
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.626 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Tgt Ion: 43 Resp: 7335
Ion Ratio Lower Upper
43 100
58 50.0 36.6 54.8





#52

Toluene

Concen: 0.647 ug/l

RT: 10.635 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

Instrument :

MSVOA_N

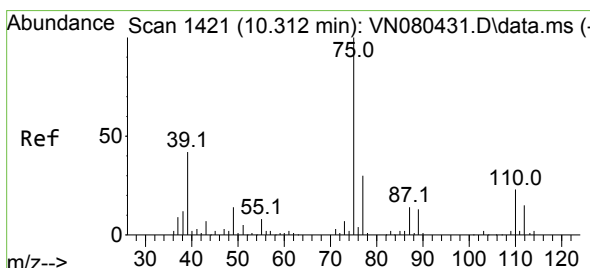
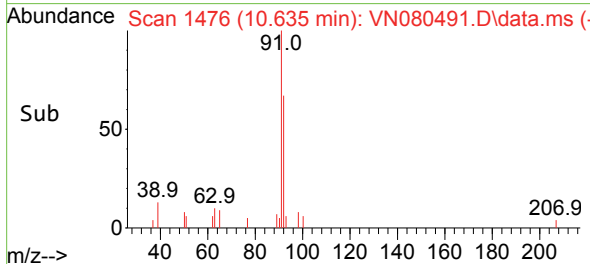
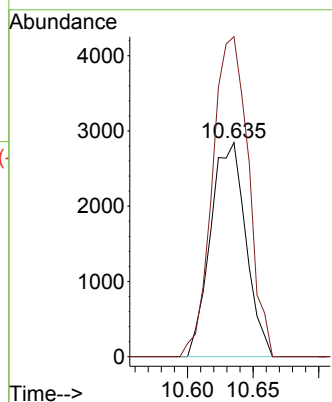
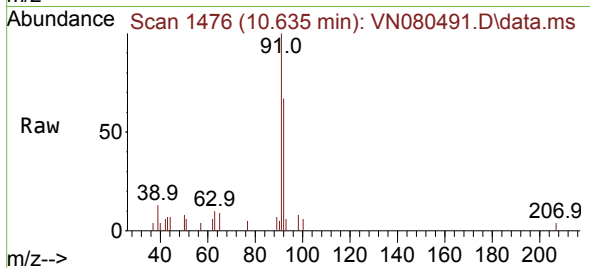
ClientSampleId :

Tgt Ion: 92 Resp: 5317

Ion Ratio Lower Upper

92 100

91 152.0 137.4 206.0



#54

cis-1,3-Dichloropropene

Concen: 10.101 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.041 min

Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

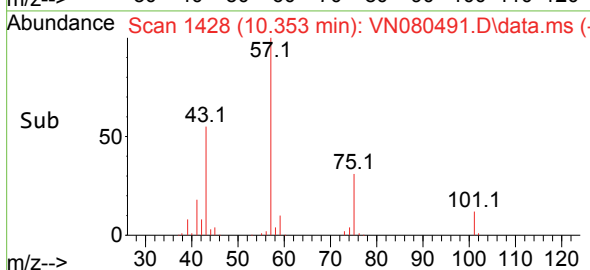
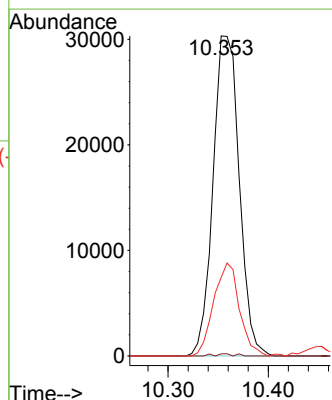
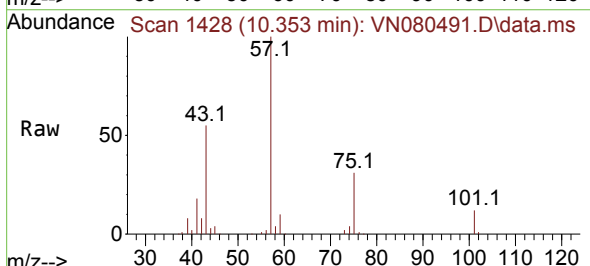
Tgt Ion: 75 Resp: 54930

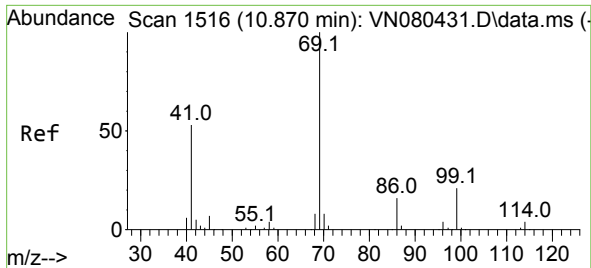
Ion Ratio Lower Upper

75 100

77 0.7 26.1 39.1#

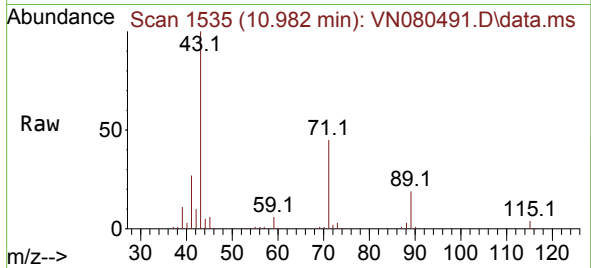
39 24.5 31.6 47.4#



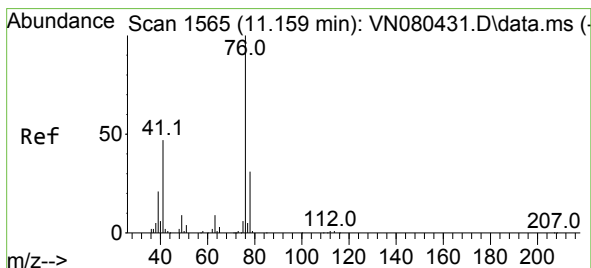
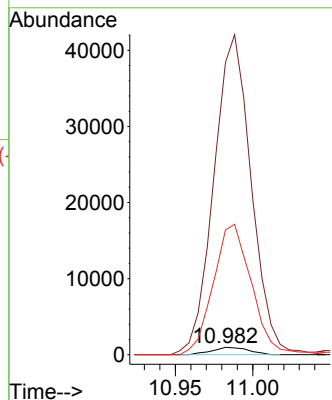
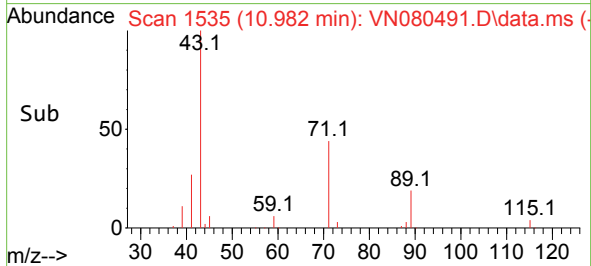


#56
Ethyl methacrylate
Concen: 0.485 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Instrument :
MSVOA_N
ClientSampleId :

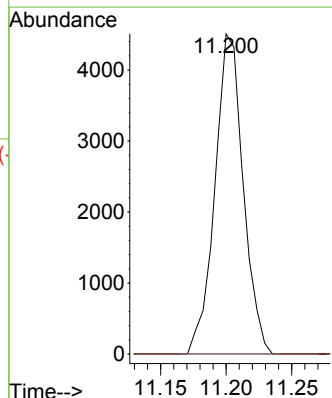
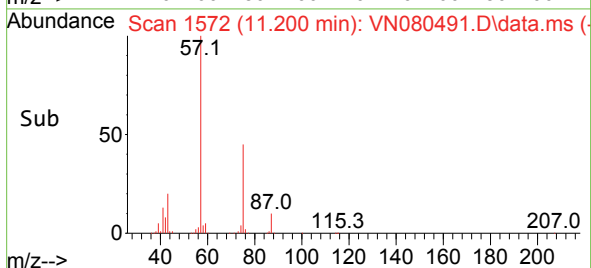
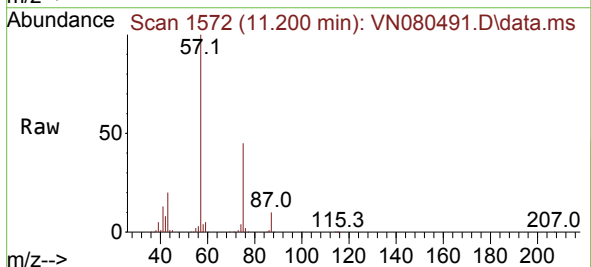


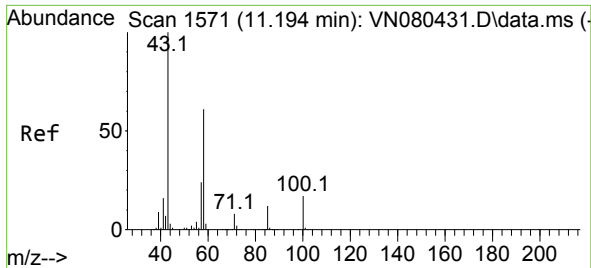
Tgt Ion: 69 Resp: 1587
Ion Ratio Lower Upper
69 100
41 4457.8 39.6 59.4#
39 1852.4 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.304 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

Tgt Ion: 76 Resp: 6758
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

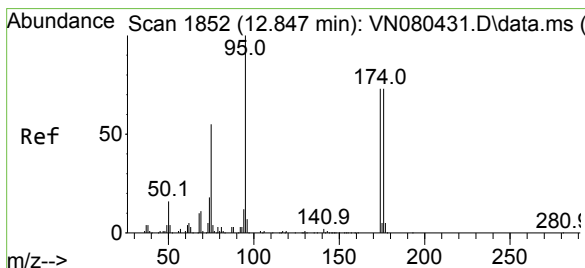
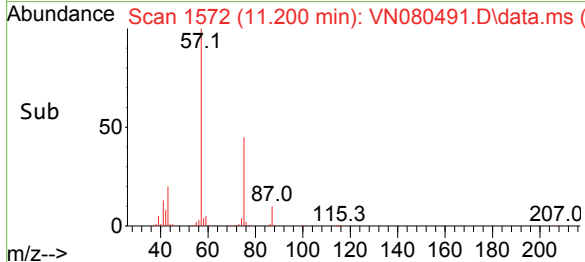
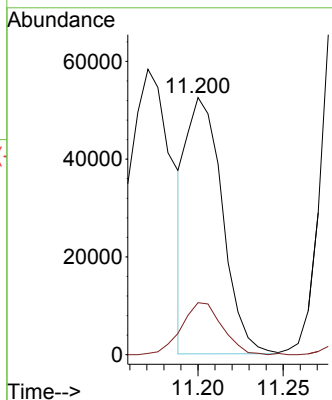
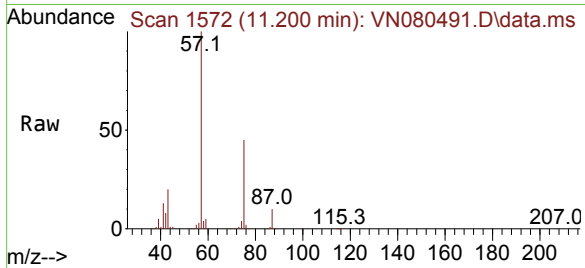




#59
2-Hexanone
Concen: 37.387 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

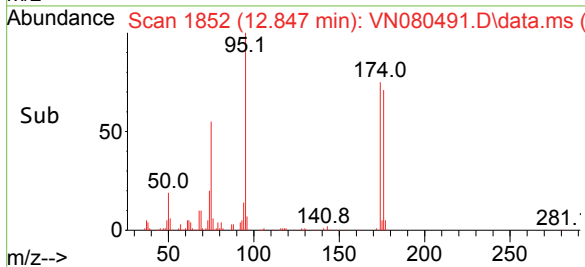
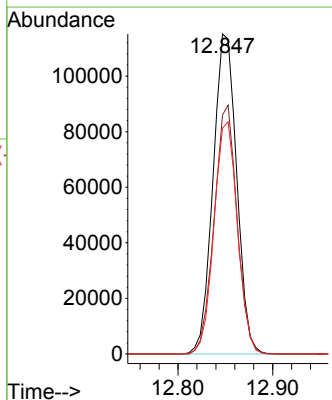
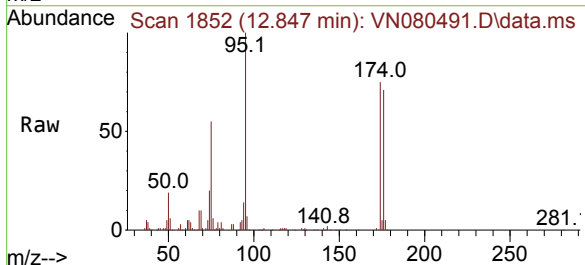
Instrument :
MSVOA_N
ClientSampleId :

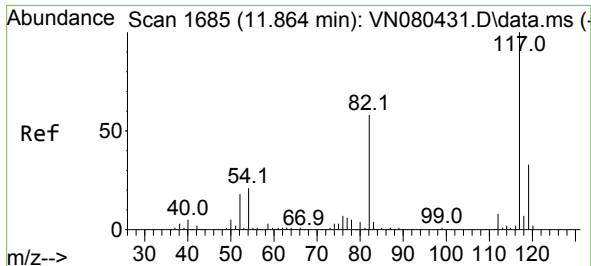
Tgt Ion: 43 Resp: 77103
Ion Ratio Lower Upper
43 100
58 23.1 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.210 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

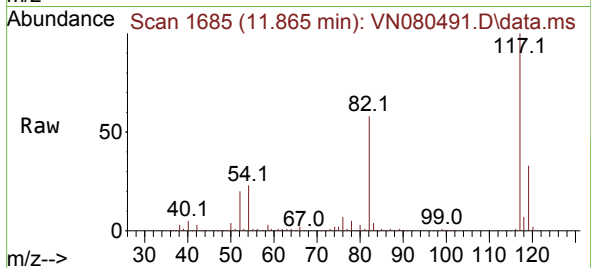
Tgt Ion: 95 Resp: 199815
Ion Ratio Lower Upper
95 100
174 75.4 0.0 143.8
176 71.8 0.0 135.8



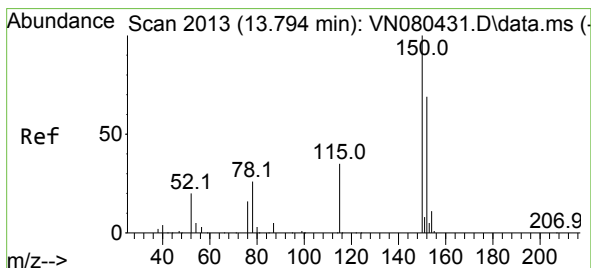
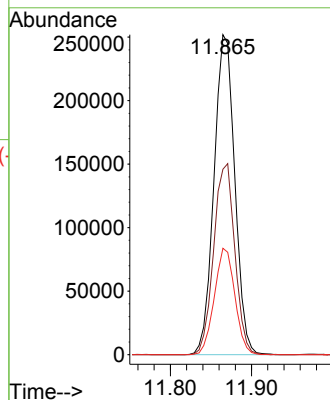
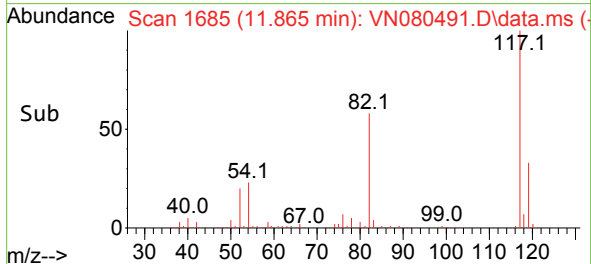


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37

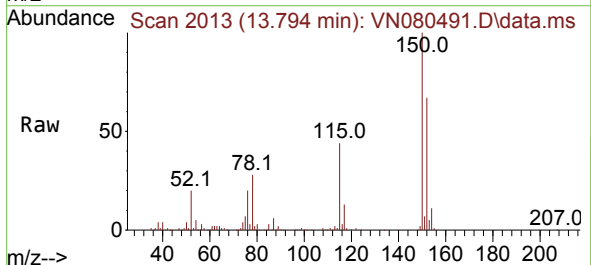
Instrument :
MSVOA_N
ClientSampleId :



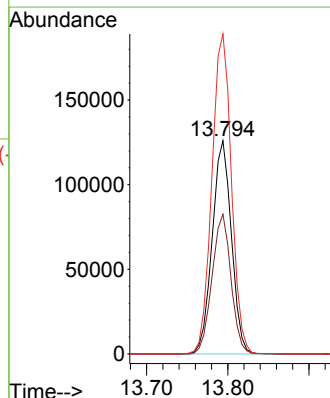
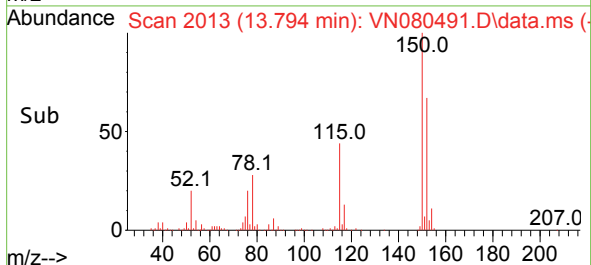
Tgt Ion:117 Resp: 448956
Ion Ratio Lower Upper
117 100
82 58.0 44.0 66.0
119 33.3 25.6 38.4

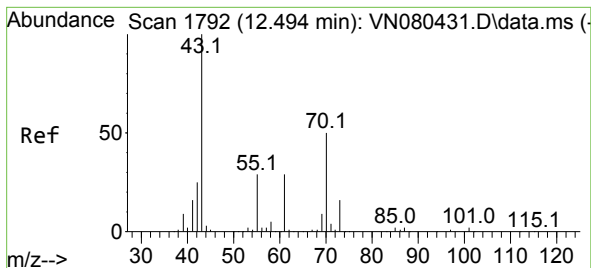


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN080491.D
Acq: 14 Dec 2023 18:37



Tgt Ion:152 Resp: 206787
Ion Ratio Lower Upper
152 100
115 64.6 32.3 96.8
150 152.7 0.0 355.8





#74

N-amy1 acetate

Concen: 0.370 ug/l

RT: 12.465 min Scan# 1793

Delta R.T. -0.029 min

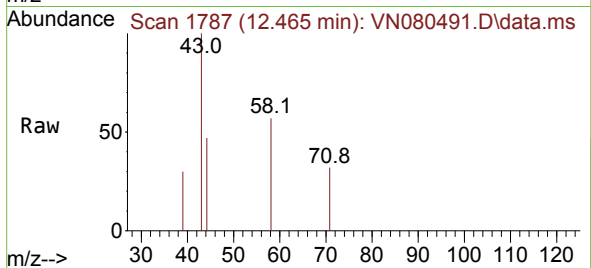
Lab File: VN080491.D

Acq: 14 Dec 2023 18:37

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1793

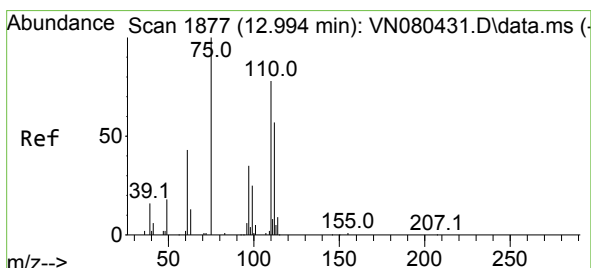
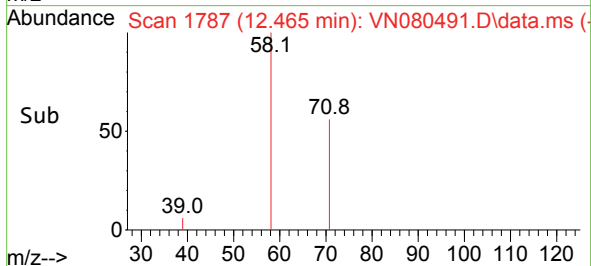
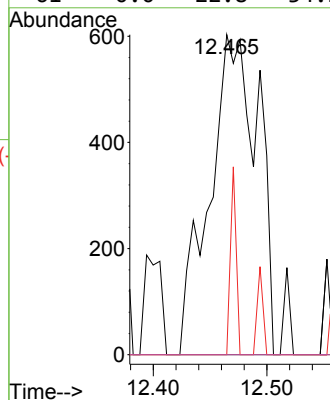
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 7.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 27.000 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080491.D

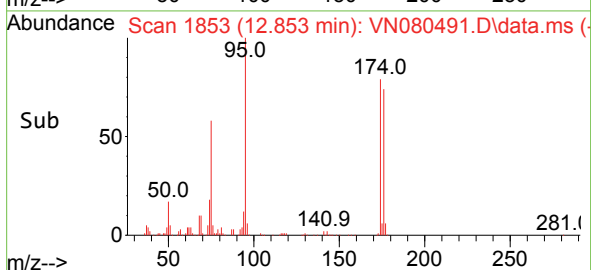
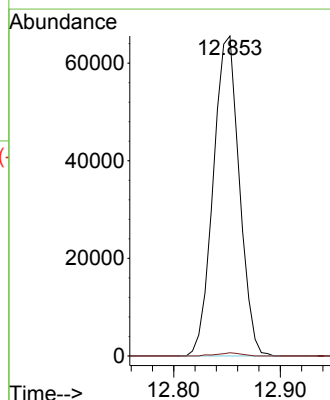
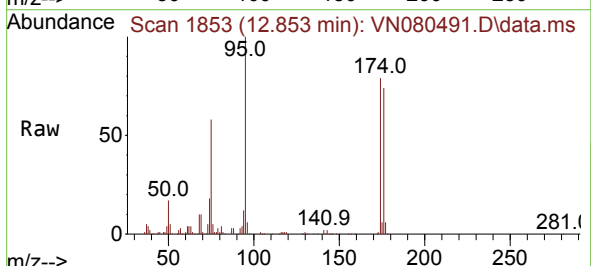
Acq: 14 Dec 2023 18:37

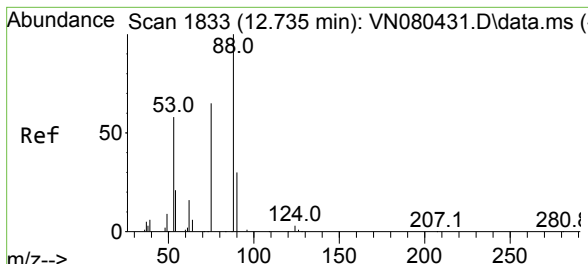
Tgt Ion: 75 Resp: 111384

Ion Ratio Lower Upper

75 100

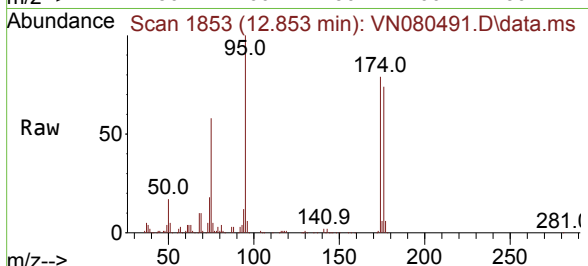
77 0.9 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.891 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN080491.D
 Acq: 14 Dec 2023 18:37

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 111384
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

